

## AMENDED CLAIMS

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(10/03/2005) original claim 1 replaced by amended claim 1**

1. A flow-controlled wind motor rotor (1) comprising one or more blades (3), said blades rotating around a central vertical axis (4) in a main bearing (5), said blades being parallel to the vertical axis (4), said blades being connected via crossbars (6), said blades being disposed freely rotatably in bearings (7), said blades (3) comprising a symmetrical aerodynamic profile (8) over their entire cross-section, said blades being orientable to the direction of the wind (10), and said rotor comprising a wind vane (9) to capture the direction of the wind  
  
characterized in that  
  
said rotor comprises a primary control mechanism (11), which is controlled by said wind vane (9) and aligns said profiles (8) of said blade(s) (3) along the wind direction (10) at each point of their trajectory (13) around the central vertical axis (4), said blades being disposed on said crossbars (6),  
  
said rotor comprises a secondary control mechanism (12), which aligns the longitudinal axes of said profiles (8) of said blade(s) (3) to the wind (10) at each point of their trajectory (13) around the central vertical axis (4) so as to produce an optimum aerodynamic force depending on the rotation angle of the crossbars (6) with respect to the wind vane (9) and the rotation velocity of the crossbars (6), and  
  
said secondary control mechanism (12) is subordinate to the first control mechanism (11).
2. The wind rotor of claim 1, characterized in that the control mechanisms (11, 12) are mechanically, electromechanically, hydraulically or pneumatically controllable.